Contents Volume 153, July 15, 1991

S. M. Rump (Hamburg, Germany)
Estimation of the Sensitivity of Linear and Nonlinear Algebraic Problems 1

Jinchuan Hou (Shanxi, China)
On Operator Inequalities and Linear Combinations of Operators 35

Juan-Enrique Martínez-Legaz (Barcelona, Spain) and Ivan Singer (Bucharest, Romania)
Compatible Preorders and Linear Operators on R^n 53

Matjaž Omladič and Peter Šemrl (Ljubljana, Yugoslavia)
Spectrum-Preserving Additive Maps 67

H. Osaka (Tokyo, Japan)
Indecomposable Positive Maps in Low Dimensional Matrix Algebras 73

Ji-guang Sun (Beijing, China)
Perturbation Expansions for Invariant Subspaces 85

Carsten Scherer (Würzburg, Germany)
The Solution Set of the Algebraic Riccati Equation and the Algebraic Riccati Inequality 99

K. T. Arasu (Dayton, Ohio), Willem H. Haemers (Tilburg, The Netherlands), Dieter Jungnickle, and Alexander Pott (Giessen, Germany)
Matrix Constructions of Divisible Designs 123

S. J. Lee (Tampa, Florida) and M. Z. Nashed (Newark, Delaware)
Normed Linear Relations: Domain Decomposability, Adjoint Subspaces, and Selections 135

Peter Nylen and Tin-Yau Tam (Auburn, Alabama)
Numerical Range of a Doubly Stochastic Matrix 161

Mohamed Barraa (Marrakech, Maroc) and Bernard Charles (Montpellier, France)
Sous-espaces Invariants d'un Opérateur Nilpotent sur un Espace de Banach 177

H. Väliaho (Helsinki, Finland)
A Polynomial-Time Test for M-matrices 183

Artibano Micali (Montpellier, France) and Moussa Ouattara (Burkina Faso)
Dupliquée d'une Algèbre et le Théorème d'Etherington 193

Table of Contents Continued

JENNIFER RYAN (Denver, Colorado)
Decomposing Finitely Generated Integral Monoids
by Elimination 209

BOOK REVIEWS

JOHN H. RANDALL (Stellenbosch, South Africa)
Review of *Linear Least Squares Computations*
by R. W. Farebrother 219

PAMELA G. COXSON (Berkeley, California)
Review of *Nonnegative Matrices in Dynamic Systems*
by A. Berman, M. Neumann, and R. J. Stern 225

AUTHOR INDEX 227